



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

**Environment, Health, & Safety
Training Program**

EHS 417/418 ~ X-Ray Safety Repair-Technician Training

Course Syllabus

Subject Category: Radiation Protection
Course Length: 1.5 hour
Delivery Mode: Class or video
Schedule: Monthly or by special request
Location/Time: Bldg. 75-124

Course Prerequisite: EHS 400
Medical Approval: No

Course Purpose: This course is designed to provide x-ray safety information to technicians who repair and maintain the machines.

Course Objectives: This course covers the following topics:

- Overview of the X-Ray Authorization at LBNL.
- Basic provisions of the X-Ray program at LBNL.
- Discuss topics specific safety during x-ray machine maintenance.

Course Instructional Materials:

- Overhead Projector
- VCR for video "*Double Edged Sword*".

Instructors:

Ted DeCastro
Keith Heinzelman

Training Compliance Requirements: 10CFR835 section 901 (b), which states that each individual shall demonstrate knowledge of radiation safety topics before operating a radiation-producing machine.

Course Handouts: yes

Participant Evaluation: Written evaluations regarding the effectiveness of the trainer, the training, and the visual aids.

Written Exam: Yes

Practical Exam: No

Retraining/Recertification: 1 year. Retraining is normally accomplished as part of the annual renewal of x-ray authorization (XA).

Challenge Exam: A challenge exam may be taken, in lieu of attending most of the class, by individuals with adequate prior training experience in radiation protection, a brief orientation will still be required. Contact Ted DeCastro (x5256) for information on taking the challenge exams.

WEB Resource: No